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Title: JP7130349A2: MANUFACTURE OF SEPARATOR FOR BATTERY

Derwent Title: Separator mfr. for battery - involves addition of wax particle into porous film using resident electrostatic charge and fixing them together by thermo-compression bonding [\[Derwent Record\]](#)

Country: JP Japan

Kind: A

Inventor: TAKAHASHI NOBORU;

Assignee: SONY CORP
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Published / Filed: 1995-05-19 / 1993-11-05

Application Number: JP1993000276519

IPC Code: H01M 2/16; H01M 10/40;

Priority Number: 1993-11-05 JP1993000276519

Abstract: PURPOSE: To prepare a precise separator extremely easily within a short time by combining a porous film and a low molecular weight polyolefine with optional melting point; wherein the fine pores of the film in the separator can be closed at optional temperature.



CONSTITUTION: A charged porous film 12 is sent to a heater roller 3 set at the temperature lower by 0.5 to several degrees than the melting point of low molecular weight polyolefine-based wax fine particles 13 which are to be thermally pressed to the film, and then the porous film 12 charged by the heater roller 3 is sent to a wax fine particle stirring tank 4 filled with the wax fine particles 13 through an open mouth part 4a. As a result, the wax fine particles 13 adhere to the charged porous film 12 due to electrostatic force and the wax fine particles 13 are immediately softened and stuck to the porous film 12.

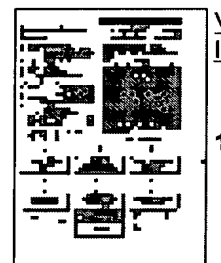
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Family: None

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Forward References: Go to Result Set: Forward references (2)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes
	US6511517	2003-01-28	Ullrich; Matthias	NBT GmbH	Method for producing a secondary lith cell comprising a heat-sensitive



					protective mechanism
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Other Abstract
Info:

CHEMABS 123(10)118558Z CAN123(10)118558Z DERABS C95-218553 DERC95-218553



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(19)

(11) Publication number: **07130**

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PATENT ABSTRACTS OF JAPAN(21) Application number: **05276519**(51) Intl. Cl.: **H01M 2/16**(22) Application date: **05.11.93**

(30) Priority:	(71) Applicant: SONY CORP
(43) Date of application publication: 19.05.95	(72) Inventor: TAKAHASHI NOBORU
(84) Designated contracting states:	(74) Representative:

**(54) MANUFACTURE OF
SEPARATOR FOR
BATTERY**

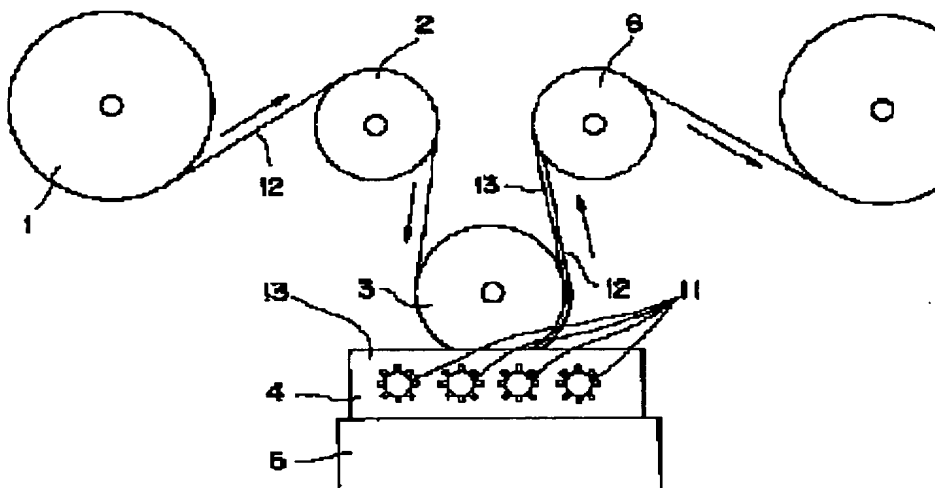
(57) Abstract:

PURPOSE: To prepare a precise separator extremely easily within a short time by combining a porous film and a low molecular weight polyolefine with optional melting point; wherein the fine pores of the film in the separator can be closed at optional temperature.

CONSTITUTION: A charged porous film 12 is sent to a heater roller 3 set at the temperature lower by 0.5 to several degrees than the melting point of low molecular weight polyolefine-based wax fine particles 13 which are to be thermally pressed to the film, and then the porous film 12 charged by the heater roller 3 is sent to a wax fine particle stirring tank 4 filled with the wax fine particles 13 through an open mouth part 4a. As a result, the wax fine particles 13 adhere to the charged porous film 12 due to

electrostatic force and the wax fine particles 13 are immediately softened and stuck to the porous film 12.

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